In the Claims

The status of claims in the case is as follows:

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1.   [Currently amended] A collaboration space, comprising:

a place comprising a plurality of rooms linked by forward and reverse pointers, each said forward pointer including a readers field;

a member directory for said place identifying users authorized to enter said place; and

each said room comprising one or more pages, and for each said room said readers field being a members object for identifying members authorized to access said room and for each member a level of authorization.

2.   [Original] The collaboration space of claim 1, said levels of authorization including manager, author, and reader.

1   3.   [Currently amended] ~~The collaboration space of claim 1,~~

2   A collaboration space, comprising:

3   a place comprising a plurality of rooms linked by

4   pointers;

5   a member directory for said place identifying users

6   authorized to enter said place; and

7   each said room comprising one or more pages, and for

8   each said room a members object for identifying members

9   authorized to access said room and for each member a

10   level of authorization;

11   said rooms including a parent room and a child room, and

12   said pointers comprising forward and backward pointers for

13   enabling the security of each said room to be independently

14   managed.

1   4.   [Original] The collaboration space of claim 3, each

2   said forward pointer further comprising a readers field,

3   said readers field including an access authority for each

4   reader authorized to enter said room.

1   5.   [Original]   The collaboration space of claim 3, each

2   said forward pointer being secure pointer.

1   6.   [Original]   The collaboration space of claim 5, each

2   said forward pointer carrying the same security as that of

3   the subroom to which it points.

1   7.   [Original]   The collaboration space of claim 6, further

2   comprising a display for presenting to a specific user

3   viewing a parent room a listing of its subrooms, said

4   listing including for said specific user only those subrooms

5   for which a readers field in said forward pointer includes

6   an entry authorizing access by said specific user.

1   8.   [Currently amended] A database access control system,

2   comprising:

3   an access control list for specifying users who can or

4   cannot access said database;

5   for users authorized to access said database, said

6   access control list further specifying access levels

7   and roles determining the specific actions said users

8   are authorized to perform, said roles including reader,

9   author, and manager;

10   a form selectively including a form access list;

11   said database including one or more documents created

12   from said form;

13   forward pointers linking said form to said documents

14   and reverse pointers linking said documents back to

15   said form;

16   said form access list identifying users authorized to

17   read documents created from said form;

18   each said forward pointer to a document including a

19   document access field selectively including a readers

20   field and an authors field for controlling who can read

21   or modify said document; users identified in any said

22   form access list for said form from which said document

23   was created being included in said readers field;

24   entries in said readers field granting authorization to

25   an individual user equal to or less than the

26   authorization for said individual user in said access

27   control list; and

28   entries in said authors field selectively granting

29   authorization to a user authorized as an author in said

30   access control list to edit a document which said

31   author creates.

1   9.   [Currently amended] A method for controlling access to

2   rooms within a collaboration place, comprising the steps of:

3   maintaining for said collaboration place an access

4   control list identifying those users authorized to

5   enter said place;

6   providing forward and reverse pointers linking said

7   rooms in a hierarchical structure within said place,

8   said pointers including forward pointers having a

9   readers field;

10   displaying a parent room to a specific user, said

11	parent room including a list of children rooms for
12	which said readers fields <u>on said forward pointers</u>
13	authorize said specific user access.

1	10. [Original] A method for creating a child room within a
2	collaboration place data base, comprising the steps of:
3	providing for said data base an access control list
4	identifying users authorized to access said data base;
5	providing for said child room a back pointer to a
6	parent room; and
7	providing at said parent room for said child room a
8	forward pointer from said parent room, said pointer
9	including a readers access field listing users
10	authorized to access said child room.

1	11. [Original] The method of claim 10, further comprising
2	the steps of:
3	limiting reader access in said readers access field to

4   said child room for a specific user to no more than the

5   access granted said specific user in said access

6   control list.

1   12.   [Original] The method of claim 11, further comprising

2   the step of initially including in said readers access

3   field for a child room created from a form users

4   identified in a form access list identifying users

5   authorized to read rooms created from said form.

1   13.   [Currently amended] A program storage device readable

2   by a machine, tangibly embodying a program of instructions

3   executable by a machine to perform method steps for

4   controlling access to rooms within a collaboration place,

5   said method steps comprising:

6   maintaining for said collaboration place an access

7   control list identifying those users authorized to

8   enter said place;

9   providing <u>forward and reverse</u> pointers linking said

10   rooms within said place, said ~~pointers including~~

11   forward pointers having a readers field; and

12   displaying a parent room to a specific user, said

13   parent room including a list of children rooms for

14   which said readers fields <u>on said forward pointers</u>

15   authorize said specific user access.

1   14. [Currently amended] An article of manufacture

2 comprising:

3   a computer useable medium having computer readable

4   program code means embodied therein for controlling

5   access to rooms within a collaboration place, the

6   computer readable program means in said article of

7   manufacture comprising:

8   computer readable program code means for causing a

9   computer to effect maintaining for said collaboration

10   place an access control list identifying those users

11   authorized to enter said place;

12   computer readable program code means for causing a

13   computer to effect providing <u>forward and reverse</u>

14   pointers linking said rooms <u>in a hierarchical structure</u>

15   within said place, said ~~pointers including~~ forward

16   pointers having a readers field; and

17   computer readable program code means for causing a

18   computer to effect displaying a parent room to a

19   specific user, said parent room including a list of

20   children rooms for which said readers fields <u>on said</u>

21   <u>forward pointers</u> authorize said specific user access.

1   15.   [Currently amended] A computer program product or

2   computer program element for controlling access to rooms

3   within a collaboration place according to the steps of:

4   maintaining for said collaboration place an access

5   control list identifying those users authorized to

6   enter said place;

7   providing <u>forward and reverse</u> pointers linking said

8   rooms <u>in a double-linked list</u> within said place, said

9   ~~pointers including~~ forward pointers having a readers

10   field;

11   displaying a parent room to a specific user, said

12   parent room including <u>on said forward pointers</u> a list

13   of children rooms for which said readers fields

14   authorize said specific user access.